

INTERNATIONAL SEARCH REPORT

Inten cation No
PCT/US 03/38735

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C10M173/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C10M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 402 839 A (PIOTROWSKI ALFRED B ET AL) 6 September 1983 (1983-09-06) * table 1, examples B,C *	1-10
X	US 2 959 547 A (BRILLHART DONALD D) 8 November 1960 (1960-11-08) * column 1, lines 64 to column 2, line 33* * examples 7,13,14 * * column 5, lines 28-36 * * example 17 * * column 6, lines 9-16 *	1-10
X	US 4 405 471 A (BERGVALL GOERAN A ET AL) 20 September 1983 (1983-09-20) examples 1,8,11	1-10

☐

Further documents are listed in the continuation of box C.

☒

Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

25 November 2004

Date of mailing of the international search report

01/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax (+31-70) 340-3016

Authorized officer

Perakis, N

INTERNATIONAL SEARCH REPORT

Information on patent family members

Inter-Office Communication No.

PCT/US 03/38735

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4402839	A	06-09-1983	NONE	
US 2959547	A	08-11-1960	NONE	
US 4405471	A	20-09-1983	AT 372399 B	26-09-1983
			AT 93181 A	15-02-1983
			AT 390055 B	12-03-1990
			AT 330482 A	15-08-1989
			BE 887689 A1	15-06-1981
			CH 648343 A5	15-03-1985
			DE 3107052 A1	24-12-1981
			DK 89181 A ,B,	30-08-1981
			FI 810635 A ,B,	30-08-1981
			GB 2072661 A ,B	07-10-1981
			NL 8100954 A ,B,	01-10-1981
			NO 810648 A ,B,	31-08-1981
			SE 452772 B	14-12-1987
			SE 8101108 A	30-08-1981